



ATC22 — Initial Air-Ground Trajectory Information Sharing (Airborne Domain)

Trajectory information shall be enhanced by using air-ground trajectory exchange. The preliminary steps for the deployment of Initial Trajectory Information Sharing consists of the downlink of Extended Projected Profile (EPP) data from the aircraft and processing of this data by the ATC systems and NM systems.

Aircraft operators shall equip aircraft intending to operating aircraft above FL285 (with an individual certificate of airworthiness first issued on or after 31st December 2027) with ADS-C/EPP compliant avionics that down-link trajectory information using ADS-C Extended Projected Profile (EPP) as part of the ATS B2 services. The trajectory data will be automatically downlinked from the airborne system in accordance with the contract terms and will be used by the ground system.

System requirements:

- Aircraft operators shall ensure that aircraft operating GAT flights in ICAO EUR region above FL 285 with an individual certificate of airworthiness first issued on or after 31st December 2027 are equipped with ADS-C/EPP as part of ATS B2 capability, in accordance with the applicable standards in order to downlink aircraft trajectory.
- Aircraft equipped with ADS-C/EPP compliant avionics shall down-link trajectory information using ADS-C Extended Projected Profile (EPP) as part of the ATS B2 services. The trajectory data will be automatically downlinked from the airborne system in accordance with the contract terms.

NOTE: Implementation of this Objective can only be done in conjunction with Objective ATC23, which is providing the corresponding system functionalities on the ground.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

Edition	2022
Stakeholders	Airspace Users
Type	CP1
Scope	EU
Status	Initial

Context

Related Elements



Applicability Area(s) and Timescales

- Applicability Area 1 :** All EU SES States
(All EU SES States)
- Applicability Area 2:**

Timescales	From	By	Applicable to
Initial Operational Capability	01-01-2024	-	Applicability Area 1
Full Operational Capability / Target Date	-	31-12-2027	Applicability Area 1

Links to ATM Master Plan Level 2

OI Operational Improvement Steps

Code	Title	IOC	FOC	Related Elements
IS-0303-A	Downlink of on-board 4D trajectory data to enhance ATM ground system performance: initial and time based implementation	31-12-2022	31-12-2027	SOL EN DS PCP ICAO

SOL Links to SESAR Solutions

Code	Title	Program	Related Elements
No record found			

PCP Links to PCP ATM Sub-Functionalities

Code	Title	Related Elements
No record found		

ICAO ICAO Block Modules: No associated data

References

Applicable legislation

Regulation (EU) 2021/116 on the establishment of the Common Project One

Applicable ICAO Annexes and other references

None

Deployment Programme 2022

Family 6.1.1 - Initial Air-Ground Trajectory Information Sharing (Airborne Domain)

Operating Environments

-

Expected Performance Benefits

Safety	Increased ground situational awareness.
Capacity	-
Operational efficiency	-
Cost efficiency	-
Environment	-
Security	-

Stakeholder Lines of Action

Code	Title	From	By	Related Enablers
USE01	New aircraft configuration definition	01-01-2024	31-12-2027	
USE02	Prepare training procedures	01-01-2024	31-12-2027	
USE03	Training	01-01-2024	31-12-2027	
USE04	Perform A/C Acceptance Process & Obtain Operational Approval	01-01-2024	31-12-2027	
USE05	Operational use	01-01-2024	31-12-2027	

Supporting Material

Title	Related SLOAs
SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021 https://www.sesardeploymentmanager.eu/publications/deployment-programme	USE01, USE02, USE03, USE04

Consultation & Approval

Working Arrangement in charge	-
Outline description approved in	-
Latest objective review at expert level	-
Commitment Decision Body	-
Objective approved/endorsed in	-
Latest change to objective approved/endorsed in	-